

## Form PTO-1449 (modified)

List of Patents and Publications for Applicant's

## INFORMATION DISCLOSURE STATEMENT

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Atty. Docket No.

SILA:099

Serial No.

10/079,058

Applicants

AUGUSTO MARQUES ET AL.

Filing Date:

2/19/02

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2682

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## U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
✓	A49	6,539,066	3/25/03	Heinen	375	334	11/10/99
✓	A50	6,343,207	1/29/02	Hessel et al.	453	86	11/3/98
✓	A51	6,002,925	12/14/99	Vu et al.	455	313	3/24/97

## Foreign Patent Documents

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## Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

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Examiner:

NGUYEN K✓

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<i>W</i>	A49	6,539,066	3/25/03	Heinen	<i>375</i>	<i>334</i>	11/10/99
<i>W</i>	A50	6,343,207	1/29/02	Hessel et al.	<i>455</i>	<i>85</i>	11/3/98
<i>W</i>	A51	6,002,925	12/14/99	Vu et al.	<i>455</i>	<i>313</i>	3/24/97

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**U.S. Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date If App.
✓	A1	✓ 5,828,955	10/27/98	Lipowski et al.	455	324	8/30/95
	A2	✓ 6,035,186	3/7/00	Moore et al.	455	313	3/11/97
	A3	✓ 6,075,979	6/13/00	Holtvoeth et al.	455	264	3/5/97
	A4	✓ 5,764,171	6/9/98	Stikvoort	341	DEC 10/2/2002	4/2/96
	A5	✓ 6,148,048	11/14/00	Kerth et al.	375	350	9/26/97
	A6	✓ 4,713,563	12/15/87	Marshall et al.	327	361	5/12/86
	A7	✓ 4,070,632	1/24/78	Tuttle	330	86	9/22/76
	A8	✓ 4,236,252	11/25/80	Kominami et al.	455	201	2/6/79
	A9	✓ 4,680,588	7/14/87	Cantwell	342	92	12/5/85
	A10	✓ 4,857,928	8/15/89	Gailus et al.	341	143	1/28/88
	A11	✓ 4,989,074	1/29/91	Matsumoto	348	572	9/21/89
	A12	✓ 5,050,192	9/17/91	Nawata	375	245	11/21/90
	A13	✓ 5,083,304	1/21/92	Cahill	375	346	9/28/90
	A14	✓ 5,142,695	8/25/92	Roberts et al.	455	437	3/21/91
	A15	✓ 5,194,826	3/16/93	Huusko	330	302	4/12/91
	A16	✓ 5,235,410	8/10/93	Hurley	348	472	7/10/91
	A17	5,267,272	11/30/93	Cai et al.	375	346	2/14/91
	A18	5,283,578	2/1/94	Ribner et al.	341	143	11/16/92
	A19	5,345,406	9/6/94	Williams	708	300	8/25/92
	A20	5,430,890	7/4/95	Vogt et al.	455	180.3	11/20/92
	A21	5,442,353	8/15/95	Jackson	341	143	10/25/93
	A22	5,451,948	9/19/95	Jekel	341	139	2/28/94
✓	A23	5,500,645	3/19/96	Ribner et al.	341	143	3/14/94

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N	A24	✓ 5,557,642	9/17/96	Williams	325	316	11/14/94
	A25	✓ 5,712,628	1/27/98	Phillips et al.	340	10.51	8/31/95
	A26	✓ 5,742,189	4/21/98	Yoshida et al.	327	113	9/14/95
	A27	✓ 5,862,465	1/19/99	Ou	340	10.51	12/30/96
	A28	✓ 5,973,601	10/26/99	Campana	340	10.51	12/2/97
	A29	✓ 5,758,276	5/26/98	Shirakawa et al.	455	314	5/31/96
	A30	✓ 5,740,524	4/14/98	Pace et al.	455	232.1	12/14/95
	A31	✓ 4,623,926	11/18/86	Sakamoto	348	728	11/9/836
	A32	✓ 5,341,135	8/23/94	Pearce	341	120	4/30/92
	A33	✓ 5,241,310	8/31/93	Tiemann	341	143	3/2/92
	A34	✓ 4,562,591	12/31/85	Stikvoort	381	106	2/2/84
	A35	✓ 5,243,345	2/21/92	Naus et al.	341	143	2/21/92
	A36	✓ 5,469,475	11/21/95	Voorman	375	247	5/31/91
	A37	✓ 4,912,729	3/27/90	Van Rens et al.	375	327	12/15/88
	A38	✓ 4,627,021	12/2/86	Persoon et al.	712	36	3/13/84
	A39	✓ 4,692,737	9/8/87	Stikvoort et al.	341	50	10/17/86
	A40	✓ 4,584,659	4/22/86	Stikvoort	708	313	7/5/83
	A41	✓ 4,797,845	1/10/89	Stikvoort	708	313	12/11/86
	A42	✓ 4,604,720	8/5/86	Stikvoort	708	313	3/16/84
	A43	5,157,343	10/20/92	Voorman	324	319	5/31/91
	A44	5,124,705	7/23/92	Voorman	344	141	7/10/91
	A45	4,468,790	8/28/84	Hofelt	375	245	2/16/82
N	A46	5,859,878	1/12/99	Phillips et al.	375	316	8/31/95

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See Pages 3-10**U.S. Patent Documents**

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<input checked="" type="checkbox"/>	A47	6,323,735	11/27/01	Welland et al.	331	364	5/25/00
<input checked="" type="checkbox"/>	A48	6,167,245	12/26/00	Welland	455	260	5/29/98

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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
<input checked="" type="checkbox"/>	B1	WO 00/22735	4/20/00	Ali	—	—	—
<input checked="" type="checkbox"/>	B2	GB2233518A	1/9/91	Dedic	—	—	—
<input checked="" type="checkbox"/>	B3	0643477A2	3/15/95	Hulkko et al.	—	—	—
<input checked="" type="checkbox"/>	B4	WO 00/11794	3/2/00	Moore et al.	—	—	—
<input checked="" type="checkbox"/>	B5	WO 00/01074	1/6/00	Van Der Zwan et al.	—	—	—
<input checked="" type="checkbox"/>	B6	WO 99/22456	5/6/99	Grenabo	—	—	10/27/98

**Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)**

Exam. Init.	Ref. Des.	Citation
<input checked="" type="checkbox"/>	C1	Stephen Jantzi et al., "Quadrature Bandpass $\Delta\Sigma$ Modulation for Digital Radio," IEEE Journal of Solid-State Circuits, Vol. 32, No. 12, December 1997, pp. 1935-1950.
<input checked="" type="checkbox"/>	C2	Stephen Jantzi et al., "A Complex Bandpass $\Delta\Sigma$ Converter For Digital Radio," ISCAS, May/June 1994, pp. 453-456.
<input checked="" type="checkbox"/>	C3	"Analog Devices Delivers World's First Open Market GSM Direct Conversion Radio Chipset," Analog Devices Corporate Information Press Release, <a href="http://contentanalog.com/pressrelease/prdisplay/0,1622,102,00.html">http://contentanalog.com/pressrelease/prdisplay/0,1622,102,00.html</a> , September 13, 1999, pp. 1-4.

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Exam. Init.	Ref. Des.	Citation
<i>W</i>	C4	Data Sheet, CX74017, "RF Transceiver for Single, Dual, or Tri-Band GSM/GPRS Applications," Conexant, January 2, 2001, pp. 1-16.
	C5	Jacques C. Rudell et al., "A 1.9-GHz Wide-Band IF Double Conversion CMOS Receiver for Cordless Telephone Applications," IEEE Journal of Solid-State Circuits, Vol. 32, No. 12, December 1997, pp. 2071-2088.
	C6	Jan Crols et al., "Low-IF Topologies for High-Performance Analog Front Ends of Fully Integrated Receivers," IEEE Transactions on Circuits and Systems-II: Analog and Digital Signal Processing, Vol. 45, No. 3, March 1998, pp. 269-282.
	C7	Jacques C. Rudell et al., "Recent Developments In High Integration Multi-Standard CMOS Transceiver for Personal Communication Systems," invited paper at the 1998 International Symposium on Low Power Electronics, Monterey, California, 6 pgs.
	C8	Asad Abidi, "CMOS Wireless Transceivers: The New Wave," IEEE Communications Magazine, August 1999, pp. 119-124.
	C9	Data Sheet, UAA3535HL, "Low Power GSM/DCS/PCS Multi-band Transceiver," Philips Semiconductors, February 17, 2000, pp. 1-24.
	C10	Stephen Jantzi et al., "FP 13.5: A Quadrature Bandpass $\Delta\Sigma$ Modulator for Digital Radio," Digest of Technical Papers, 1997 IEEE International Solid-State Circuits Conference, First Edition, February 1997, pp. 216-217, 460.
	C11	S. A. Jantzi et al., "The Effects of Mismatch In Complex Bandpass $\Delta\Sigma$ Modulators," IEEE, 1996, pp. 227-230.
	C12	Qiuting Huang, "CMOS RF Design-The Low Power Dimension," IEEE 2000 Custom Integrated Circuits Conference, pp. 161-166.
	C13	Paolo Orsatti et al., "A 20-mA-Receive, 55-mA-Transmit, Single-Chip GSM Transceiver in 0.25- $\mu\text{m}$ CMOS," IEEE Journal of Solid-State Circuits, Vol. 34, No. 12, December 1999, pp. 1869-1880.
<i>W</i>	C14	Qiuting Huang et al., "The Impact of Scaling Down to Deep Submicron on CMOS RF Circuits," IEEE Journal of Solid-State Circuits, Vol. 33, No. 7, July 1998, pp. 1023-1036.
<i>W</i>	C15	Behzad Razavi, "Design Considerations for Direct-Conversion Receivers," IEEE Transactions on Circuits and Systems-II: Analog and Digital Signal Processing, Vol. 44, No. 6, June 1997, pp. 428-435.

Examiner:

NGUYEN, ICV

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Exam. Init.	Ref. Des.	Citation
✓	C16	Farbod Behbahani et al., "CMOS Mixers and Polyphase Filters for Large Image Rejection," IEEE Journal of Solid-State Circuits, Vol. 36, No. 6, June 2001, pp. 873-887.
	C17	Jan Crols et al., "A Single-Chip 900 MHz CMOS Receiver Front-End With A High Performance Low-IF Topology," IEEE Journal of Solid-State Circuits, Vol. 30, No. 12, December 1995, pp. 1483-1492.
	C18	Analog Devices, Single-Chip Direct-Conversion GSM/GPRS/EDGE RFIC, Othello One, <a href="http://www.analog.com">www.analog.com</a> , 2 pgs.
	C19	Analog Devices, AD6523/AD6524, GSM Direct Conversion Radio Chip Set, <a href="http://www.analog.com">www.analog.com</a> , 2 pgs.
	C20	Analog Devices, GSM 3 V Transceiver IF Subsystem, AD6432, <a href="http://www.analog.com">www.analog.com</a> , pp. 1-20.
	C21	Hitachi, "RF Transceiver IC For GSM And PCN Dual Band Cellular Systems," HD155121F, ADE-207-265(Z), 1 <sup>st</sup> Edition, November 1998, pp. 1-56.
	C22	Analog Devices, AD7002 Specification, LC2MOS, GSM Baseband I/O Port, Rev. B, 1997, pp. 1-16.
	C23	Analog Devices, AD20msp415, GSM/DCS1800/PCS1900, Baseband Processing Chipset, Rev. O, 1997, pp. 1-7.
	C24	Kwentus et al., "A Single-Chip Universal Digital Satellite Receiver With 480-MHz IF Input," IEEE Journal of Solid-State Circuits, Vol. 34, No. 11, November 1999, pp. 1634-1646.
	C25	Minnis et al., "A Low-IF Polyphase Receiver For GSM Using Log-Domain Signal Processing," IEEE Radio Frequency Integrated Circuits Symposium, 2000, pp. 83-86.
	C26	Atkinson et al., "A Novel Approach To Direct Conversion RF Receivers For TDMA Applications," Analog Devices, 1999, pp. 1-5.
	C27	Crochiere et al., "Optimum FIR Digital Filter Implementations For Decimation, Interpolation, And Narrow-Band Filtering," IEEE Transactions On Acoustics, Speech, And Signal Processing, Vol. ASSP-23, No. 5, October 1975, pp. 444-456.
✓	C28	Hogenauer, "An Economical Class Of Digital Filters For Decimation And Interpolation," IEEE, 1981, pp. 155-162.
✓	C29	Brandt et al., "A Low-Power, Area-Efficient Digital Filter For Decimation And Interpolation," IEEE Journal Of Solid-State Circuits, Vol. 29, No. 6, June 1994, pp. 679-687.

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W	C30	Philips Semiconductors, "uaa3535-Low-Power GSM GPRS Triple-Band Near-Zero IF Transceiver," October 1999, 4 pgs.
	C31	D'Avella et al., "An Adaptive MLSE Receiver For TDMA Digital Mobile Radio," IEEE Journal On Selected Areas In Communications," Vol. 7, No.1, January 1989, pp. 122-129.
	C32	Razavi, "CMOS RF Receiver Design For Wireless LAN Applications," IEEE, 1999, pp. 275-280.
	C33	Lucent Technologies, "W3020 GSM Multiband RF Transceiver," Advance Data Sheet, December 1999, pp. 1-44.
	C34	Lucent Technologies, "DSP1620 Digital Signal Processor," Data Sheet, June 1998, pp. 1-178.
	C35	Steyaert et al., "A 2-V CMOS Cellular Transceiver Front-End," IEEE Journal of Solid-State Circuits, Vol. 35, No. 12, December 2000, pp. 1895-1907.
	C36	Paulus et al., "A CMOS IF Transceiver With Reduced Analog Complexity," IEEE Journal Of Solid-State Circuits, Vol. 33, No. 12, December 1998, pp. 2154-2159.
	C37	Analog Devices, "Analog Devices Delivers World's First Open Market GSM Direct Conversion Radio Chipset," November 1999, 4 pgs.
	C38	"Digest Of Technical Papers," 1997 IEEE International Solid-State Circuits Conference, First Edition, February 1997, 5 pgs.
	C39	RF Micro Devices, RF2968, Product Description, Blue Tooth Transceiver, Rev A19, pp. 11-199-11-222.
	C40	Texas Instruments, TRF6901, "Single Chip RF Transceiver," March 2002, pp. 1-29.
	C41	Texas Instruments, TRF6900A, "Single Chip RF Transceiver," September 2001, pp. 1-34.
	C42	Texas Instruments, TRF6900, "Single Chip RF Transceiver, October 1999, pp. 1-32.
	C43	Philips Semiconductor, "Bluetooth RF Transceiver," Data Sheet, UAA3558, December 21, 2000, pp. 1-5.
W	C44	Philips Semiconductor, "Image Reject 1 800 MHz Transceiver For DECT Applications," Data Sheet, UAA2067G, October 22, 1996, pp. 1-24.

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N. V. Yen, W

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<input checked="" type="checkbox"/>	C45	Philips Semiconductor, "Analog Cordless Telephone IC," Data Sheet, UAA2062, August 10, 2000, pp. 1-40.
<input type="checkbox"/>	C46	Philips Semiconductor, "900 MHz Analog Cordless Telephone IC," Data Sheet, UAA3515A, December 12, 2001, pp. 1-44.
<input type="checkbox"/>	C47	Philips Semiconductor, "Low Voltage IF I/Q Transceiver," Data Sheet, SA1638, September 3, 1997, pp. 1-26.
<input type="checkbox"/>	C48	Texas Instruments, "TCS2100 GPRS Chipset Solution," Product Bulletin, 2001, 4 pgs.
<input type="checkbox"/>	C49	Fague, "Othello: A New Direct-Conversion Radio Chip Set Eliminates IF Stages," Analog Dialogue 33-10, 1999, pp. 1-3.
<input type="checkbox"/>	C50	Analog Devices, AD6523/AD6524, "GSM Direct Conversion Radio Chip Set," 1999, 2 pgs.
<input type="checkbox"/>	C51	Lucent Technologies, "Lucent CSP1089 GSM Conversion Signal Processor For Cellular Handset And Modem Applications," Product Brief, February 2001, 2 pgs.
<input type="checkbox"/>	C52	Lucent Technologies, "Lucent CSP1099 GSM Conversion Signal Processor For Cellular Handset And Modem Applications," Product Brief, February 2001, 2 pgs.
<input type="checkbox"/>	C53	Lucent Technologies, "Trident," Product Brief, February 2001, 2 pgs.
<input type="checkbox"/>	C54	Ericsson, "RF Transceiver Circuit For The Digital Enhanced Cordless Telecommunications (DECT) System," PBL40215, January 2001, pp. 1-22.
<input type="checkbox"/>	C55	Micro Linear, "ML2712 2.4GHz Transceiver," Datasheet, August 2001, pp. 1-21.
<input type="checkbox"/>	C56	Analog Devices, "GSM/GPRS/DCS1800.PCS1900 SoftFone Baseband Chipset," AD20msp430, 2000, 2 pgs.
<input type="checkbox"/>	C57	RF Micro Devices, "Polaris Total Radio Solution," Press Release, 2002, 1 pg.
<input type="checkbox"/>	C58	Tuttle, "Introduction To Wireless Receiver Design," Tutorial, 2002, pp. 2-58.
<input checked="" type="checkbox"/>	C59	Rael et al., "Design Methodology Used In A Single-Chip CMOS 900 MHz Spread-Spectrum Wireless Transceiver," 35 <sup>th</sup> Design Automation Conference, June 1998, 6 pgs.
<input checked="" type="checkbox"/>	C60	Troster et al., "An Interpolative Bandpass Converter On A 1.2- $\mu$ m BiCMOS Analog/Digital Array," IEEE Journal Of Solid-State Circuits, Vol. 28, No. 4, April 1993, pp. 471-477.

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<input checked="" type="checkbox"/>	C61	Schreier et al., "Decimation For Bandpass Sigma-Delta Analog-To-Digital Conversion," IEEE, 1990, pp. 1801-1804.
<input checked="" type="checkbox"/>	C62	Shoaee et al., "Optimal (Bandpass) Continuous-Time $\Delta\Sigma$ Modulator," pp. 489-492.
<input checked="" type="checkbox"/>	C63	Schreier et al., "Bandpass Sigma-Delta Modulation," Electronics Letters, Vol. 25, no. 23, November 9, 1989, pp. 1560-1561.
<input checked="" type="checkbox"/>	C64	Jantzi et al., "Bandpass Sigma-Delta Analog-To-Digital Conversion," IEEE Transactions On Circuits And Systems, Vol. 38, No. 11, November 1991, pp. 1406-1409.
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Examiner:

NGUYEN, W

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## Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

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Examiner:

NGUYEN, NV

Date Considered:

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